

Sani-Tech® STHT®-R-HD Heavy Duty Silicone Hose



BIOPHARMACEUTICAL PRODUCTS

Platinum-Cured Heavy Duty Reinforced Hose

Features/Benefits

- High pressure ratings
- Biopharmaceutical grade platinum-cured silicone
- Ultra-flexibility
- Improved bend radius over wire reinforced hose
- Sterilizable
- Autoclavable
- Imparts no taste or odor
- Supplied in continuous lengths to reduce installation time
- Available in custom colors for line identification
- Lot number traceability

Typical Applications

- Load cell
- Skid transfer
- Pump cultures
- Vessel or tank transfer
- Laboratory use
- Media dispensing
- Bioreactor process lines

Connection

- Radially crimped 316L SS fittings
(Consult factory for other connection options.)

Ideal for Elevated Pressure Applications

Sani-Tech® STHT®-R-HD high purity grade silicone hose is ideally suited for elevated pressure applications where strength, durability and continuous length are critical. Designed to meet the specific requirements of the pharmaceutical customer, this hose offers a high pressure rating and complete lot traceability, and unsurpassed performance characteristics.

Biocompatibility

Sani-Tech® STHT®-R-HD is manufactured from Sani-Tech® 65 brand silicone resin, a highly biocompatible silicone hose which meets USP Class VI, FDA CFR 177.2600, USDA, ISO 10993 and European Pharmacopoeia 3.1.9 standards. For additional compliance data please refer to the characterization information on the back page.

Characteristics

Sani-Tech® STHT®-R-HD is a non-metallic reinforced platinum-cured silicone hose that can be repeatedly autoclaved, radiated, or sterilized by ethylene oxide gas. This product remains flexible and performs as specified through a temperature range of -80°F (-62°C) to 500°F (260°C). Sani-Tech® STHT®-R-HD is available in sizes ranging from 1/2" ID through 2" ID enabling the specifier or user the flexibility of properly sizing the application. Sani-Tech® STHT®-R-HD comes in white (standard), red, and blue as stocked products. Consult the factory for additional colors or customization options. Sani-Tech® STHT®-R-HD has a Master File with the U.S. Food and Drug Administration.

Sani-Tech® STHT®-R-HD Platinum-Cured Heavy Duty Reinforced Hose

Characterization

The bio-compatibility of STHT® platinum-cured silicone manufactured with Sani-Tech® silicone has been tested and complies with the parameters set forth in the following test protocols:

Sani-Tech® STHT®-R-HD Toxicological Profile

- USP Class VI Systemic Toxicity and Intracutaneous Reactivity
- USP Intramuscular implant
- Cytotoxicity
- Pyrogen testing
- Hemolysis testing
- European Pharmacopoeia 3.1.9

Sterilization Methods

- Autoclavable
- Radiation – up to 5.0 Mrad (50 Kilogray)
- Gas – Ethylene Oxide

Inventory Sizes

Part Number	ID Inches	OD Inches	Supplied Length (feet)	Maximum Working Pressure PSI at 68°F	Minimum Bend Radius Inches	Minimum Burst Pressure PSI at 68°F
STHT-R-HD-0500	.500	.890	50'	200	2.50	800
STHT-R-HD-0750	.750	1.180	50'	170	3.00	680
STHT-R-HD-1000	1.000	1.430	50'	125	3.50	500
STHT-R-HD-1500	1.500	2.142	25'	100	6.50	400
STHT-R-HD-2000	2.000	2.695	25'	75	9.50	300

Temperature range: -80°F (-62°C) to 500°F (260°C)

Typical Physical Properties

Property	ASTM Method	Value or Rating (metric)
Durometer Hardness Shore A, 15 Sec	D2240	65
Tensile Strength psi, (MPa)	D412	1291 (8.9)
Ultimate Elongation, %	D412	580
Tear Resistance lb-f/inch (kN/m)	D624	343 (60.0)
Specific Gravity	D792	1.22
Tensile Modulus, @ 100% Elongation, psi (MPa)	D412	448 (3.1)

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SANI-TECH® HOSE IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL

aseptic process
equipment 

Parc du puy d'or - 539 allée des frênes - 69760 Limonest
Tél : +33 (0)4 72 52 02 40 - info@asepticprocess.fr

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

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